Daniel FernÃndez-GarcÃa

List of Publications by Year
in descending order

49 papers	1,612 citations	257450 24 h-index	302126 39 g-index
53 all docs	53 docs citations	53 times ranked	1172 citing authors

#	Article	IF	Citations
1	A Closer Look: High-Resolution Pore-Scale Simulations of Solute Transport and Mixing Through Porous Media Columns. Transport in Porous Media, 2023, 146, 85-111.	2.6	7
2	Enhanced NAPL Removal and Mixing With Engineered Injection and Extraction. Water Resources Research, 2022, 58, .	4.2	8
3	The Worth of Stochastic Inversion for Identifying Connectivity by Means of a Longâ€Lasting Largeâ€Scale Hydraulic Test: The Salar de Atacama Case Study. Water Resources Research, 2022, 58, .	4.2	3
4	Solute transport in bounded porous media characterized by generalized sub-Gaussian log-conductivity distributions. Advances in Water Resources, 2021, 147, 103812.	3.8	5
5	Automatic Calibration of Groundwater Models With Bias Correction and Data Filtering: Working With Drawdown Data. Water Resources Research, 2021, 57, e2020WR028097.	4.2	3
6	Randomâ€Walk Modeling of Reactive Transport in Porous Media With a Reducedâ€Order Chemical Basis of Conservative Components. Water Resources Research, 2021, 57, e2020WR028679.	4.2	6
7	Lagrangian Modeling of Mixingâ€Limited Reactive Transport in Porous Media: Multirate Interaction by Exchange With the Mean. Water Resources Research, 2020, 56, e2019WR026993.	4.2	12
8	Particle density estimation with grid-projected and boundary-corrected adaptive kernels. Advances in Water Resources, 2019, 131, 103382.	3.8	23
9	Generalizing Agarwal's Method for the Interpretation of Recovery Tests Under Nonâ€Ideal Conditions. Water Resources Research, 2018, 54, 6393-6407.	4.2	9
10	Lagrangian Modeling of Reactive Transport in Heterogeneous Porous Media With an Automatic Locally Adaptive Particle Support Volume. Water Resources Research, 2018, 54, 8309-8331.	4.2	21
11	A mechanistic model (<scp>BCâ€PSSICO</scp>) to predict changes in the hydraulic properties for bioâ€amended variably saturated soils. Water Resources Research, 2017, 53, 93-109.	4.2	13
12	A comparison of Eulerian and Lagrangian transport and non-linear reaction algorithms. Advances in Water Resources, 2017, 99, 15-37.	3.8	61
13	A KDEâ€Based Random Walk Method for Modeling Reactive Transport With Complex Kinetics in Porous Media. Water Resources Research, 2017, 53, 9019-9039.	4.2	36
14	Elimination of the Reaction Rate â€œScale Effectâ€• Application of the Lagrangian Reactive Particleâ€Tracking Method to Simulate Mixingâ€Limited, Fieldâ€Scale Biodegradation at the Schoolcraft (MI,) Tj ET Q q 0 0 0 rg BT /Overlo	2.1	38
15	Assessing the joint impact of DNAPL source-zone behavior and degradation products on the probabilistic characterization of human health risk. Advances in Water Resources, 2016, 88, 124-138.	3.8	27
16	Improving the accuracy of risk prediction from particleâ€based breakthrough curves reconstructed with kernel density estimators. Water Resources Research, 2015, 51, 4574-4591.	4.2	13
17	On the formation of multiple local peaks in breakthrough curves. Water Resources Research, 2015, 51, 2128-2152.	4.2	16
18	Probabilistic human health risk assessment of degradationâ€related chemical mixtures in heterogeneous aquifers: Risk statistics, hot spots, and preferential channels. Water Resources Research, 2015, 51, 4086-4108.	4.2	40

#	Article	IF	Citations
19	Vadose zone oxygen (O2) dynamics during drying and wetting cycles: An artificial recharge laboratory experiment. Journal of Hydrology, 2015, 527, 151-159.	5.4	39
20	A random walk solution for modeling solute transport with network reactions and multi-rate mass transfer in heterogeneous systems: Impact of biofilms. Advances in Water Resources, 2015, 86, 119-132.	3.8	22
21	Do we really need a large number of particles to simulate bimolecular reactive transport with random walk methods? A kernel density estimation approach. Journal of Computational Physics, 2015, 303, 95-104.	3.8	23
22	Toward efficiency in heterogeneous multispecies reactive transport modeling: A particleâ€tracking solution for firstâ€order network reactions. Water Resources Research, 2014, 50, 7206-7230.	4.2	44
23	Apparent directional mass-transfer capacity coefficients in three-dimensional anisotropic heterogeneous aquifers under radial convergent transport. Water Resources Research, 2014, 50, 1205-1224.	4.2	35
24	Dynamic interactions between hydrogeological and exposure parameters in daily dose prediction under uncertainty and temporal variability. Journal of Hazardous Materials, 2013, 263, 197-206.	12.4	7
25	An automatic locally-adaptive method to estimate heavily-tailed breakthrough curves from particle distributions. Advances in Water Resources, 2013, 59, 52-65.	3.8	32
26	Controlling scaling metrics for improved characterization of well-head protection regions. Journal of Hydrology, 2013, 494, 107-115.	5.4	9
27	An analytical solution to study substrate-microbial dynamics in soils. Advances in Water Resources, 2013, 54, 181-190.	3.8	7
28	On the formation of breakthrough curves tailing during convergent flow tracer tests in threeâ€dimensional heterogeneous aquifers. Water Resources Research, 2013, 49, 4157-4173.	4.2	50
29	A riskâ€based probabilistic framework to estimate the endpoint of remediation: Concentration rebound by rateâ€limited mass transfer. Water Resources Research, 2013, 49, 1929-1942.	4.2	47
30	Visualization of Mixing Processes in a Heterogeneous Sand Box Aquifer. Environmental Science & Technology, 2012, 46, 3228-3235.	10.0	32
31	A Bayesian approach to integrate temporal data into probabilistic risk analysis of monitored NAPL remediation. Advances in Water Resources, 2012, 36, 108-120.	3.8	18
32	Probabilistic analysis of maintenance and operation of artificial recharge ponds. Advances in Water Resources, 2012, 36, 23-35.	3.8	22
33	Mixing induced reactive transport in fractured crystalline rocks. Applied Geochemistry, 2012, 27, 479-489.	3.0	15
34	Probabilistic analysis of groundwater-related risks at subsurface excavation sites. Engineering Geology, 2012, 125, 35-44.	6.3	49
35	A quick and inexpensive method to quantify spatially variable infiltration capacity for artificial recharge ponds using photographic images. Journal of Hydrology, 2012, 430-431, 118-126.	5.4	21
36	Combining physical-based models and satellite images for the spatio-temporal assessment of soil infiltration capacity. Stochastic Environmental Research and Risk Assessment, 2011, 25, 1065-1075.	4.0	13

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37	A sensitivity analysis of tide-induced head fluctuations in coastal aquifers. Journal of Hydrology, 2010, 393, 370-380.	5.4	45
38	Interpretation of column experiments of transport of solutes undergoing an irreversible bimolecular reaction using a continuum approximation. Water Resources Research, 2010, 46, .	4.2	74
39	Reaction rates and effective parameters in stratified aquifers. Advances in Water Resources, 2008, 31, 1364-1376.	3.8	33
40	Point-to-point connectivity, an abstract concept or a key issue for risk assessment studies?. Advances in Water Resources, 2008, 31, 1742-1753.	3.8	50
41	Relative importance of geostatistical and transport models in describing heavily tailed breakthrough curves at the Lauswiesen site. Journal of Contaminant Hydrology, 2008, 101, 1-13.	3.3	83
42	Estimating hydraulic conductivity of the Opalinus Clay at the regional scale: Combined effect of desaturation and EDZ. Physics and Chemistry of the Earth, 2007, 32, 639-645.	2.9	12
43	A review and numerical assessment of the random walk particle tracking method. Journal of Contaminant Hydrology, 2006, 87, 277-305.	3.3	261
44	Differences in the scale-dependence of dispersivity estimated from temporal and spatial moments in chemically and physically heterogeneous porous media. Advances in Water Resources, 2005, 28, 745-759.	3.8	71
45	Differences in the scale dependence of dispersivity and retardation factors estimated from forced-gradient and uniform flow tracer tests in three-dimensional physically and chemically heterogeneous porous media. Water Resources Research, 2005, 41, .	4.2	41
46	Assessment of the predictive capabilities of stochastic theories in a three-dimensional laboratory test aquifer: Effective hydraulic conductivity and temporal moments of breakthrough curves. Water Resources Research, 2005, 41, .	4.2	36
47	Conservative and sorptive forced-gradient and uniform flow tracer tests in a three-dimensional laboratory test aquifer. Water Resources Research, 2004, 40, .	4.2	45
48	Convergent-flow tracer tests in heterogeneous media: combined experimentalâ€“numerical analysis for determination of equivalent transport parameters. Journal of Contaminant Hydrology, 2002, 57, 129-145.	3.3	36
49	Combined simulation and optimization framework for irrigation scheduling in agriculture fields. Irrigation Science, 0, , 1.	2.8	3